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Building & Highway Material Testing Laboratory
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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/MSV/GSB-2/GR/2019-20 04.09.2019

TEST REPORT ON GRADATION FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. M.S.Venkatesh,** No.163, 5th Cross, 2nd Main, Prakash Nagara, Bangalore - 10.
* Name of work	:	Improvements to drains and asphalting to Medarahalli area and Chikkasandra area in Ward No.12, Shettyhalli Sub Division (2 Works), Package No.DZ/2017-18(02), (Improvements to roads and asphalting to Medarahalli area, Shettyhalli main road to via Railway gate to Medarahalli Main road & Chikkasandra area, Bonemill main road in Ward No.12, Shettyhalli Sub Division), BBMP, Bangalore.
* Reference	:	EE/DD/WO/391/2019-20 Dated: 26.08.2019
* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2015), MORTH 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53.0	0	0	0.00	100.00	100
26.50	1120	1120	22.40	77.60	70-100
9.50	965	2085	41.70	58.30	50-80
4.75	715	2800	56.00	44.00	40-65
2.36	625	3425	68.50	31.50	30-50
0.425	835	4260	85.20	14.80	10-15
0.075	510	4770	95.40	4.60	<5
PAN	230				
Total	5000				

Civil-Tech Consultants & Engineers Bangalore

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

Note:

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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* Agency	:	**Sri. M.S.Venkatesh,** No.163, 5th Cross, 2nd Main, Prakash Nagara, Bangalore - 10.
* Name of work	:	Improvements to drains and asphalting to Medarahalli area and Chikkasandra area in Ward No.12, Shettyhalli Sub Division (2 Works), Package No.DZ/2017-18(02), (Improvements to roads and asphalting to Medarahalli area, Shettyhalli main road to via Railway gate to Medarahalli Main road & Chikkasandra area, Bonemill main road in Ward No.12, Shettyhalli Sub Division), BBMP, Bangalore.
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* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2015), MORTH 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53.0	0	0	0.00	100.00	100
26.50	1160	1160	23.20	76.80	70-100
9.50	970	2130	42.60	57.40	50-80
4.75	705	2835	56.70	43.30	40-65
2.36	630	3465	69.30	30.70	30-50
0.425	825	4290	85.80	14.20	10-15
0.075	500	4790	95.80	4.20	<5
PAN	210				
Total	5000				

Civil-Tech Consultants & Engineers Bangalore

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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Pooja K.L.

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Job No.: CTCE/BBMP/W.No.12/MSV/GSB-2/GR/2019-20 04.09.2019

TEST REPORT ON GRADATION FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. M.S.Venkatesh,** No.163, 5th Cross, 2nd Main, Prakash Nagara, Bangalore - 10.
* Name of work	:	Improvements to drains and asphalting to Medarahalli area and Chikkasandra area in Ward No.12, Shettyhalli Sub Division (2 Works), Package No.DZ/2017-18(02), (Improvements to roads and asphalting to Medarahalli area, Shettyhalli main road to via Railway gate to Medarahalli Main road & Chikkasandra area, Bonemill main road in Ward No.12, Shettyhalli Sub Division), BBMP, Bangalore.
* Reference	:	EE/DD/WO/391/2019-20 Dated: 26.08.2019
* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2015), MORTH 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53.0	0	0	0.00	100.00	100
26.50	1150	1150	23.00	77.00	70-100
9.50	965	2115	42.30	57.70	50-80
4.75	700	2815	56.30	43.70	40-65
2.36	625	3440	68.80	31.20	30-50
0.425	825	4265	85.30	14.70	10-15
0.075	500	4765	95.30	4.70	<5
PAN	235				
Total	5000				

Civil-Tech Consultants & Engineers Bangalore

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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* Agency	:	**Sri. M.S.Venkatesh,** No.163, 5th Cross, 2nd Main, Prakash Nagara, Bangalore - 10.
* Name of work	:	Improvements to drains and asphalting to Medarahalli area and Chikkasandra area in Ward No.12, Shettyhalli Sub Division (2 Works), Package No.DZ/2017-18(02), (Improvements to roads and asphalting to Medarahalli area, Shettyhalli main road to via Railway gate to Medarahalli Main road & Chikkasandra area, Bonemill main road in Ward No.12, Shettyhalli Sub Division), BBMP, Bangalore.
* Reference	:	EE/DD/WO/391/2019-20 Dated: 26.08.2019
* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2015), MORTH 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53.0	0	0	0.00	100.00	100
26.50	1165	1165	23.30	76.70	70-100
9.50	990	2155	43.10	56.90	50-80
4.75	715	2870	57.40	42.60	40-65
2.36	625	3495	69.90	30.10	30-50
0.425	835	4330	86.60	13.40	10-15
0.075	470	4800	96.00	4.00	<5
PAN	200				
Total	5000				

Civil-Tech Consultants & Engineers Bangalore

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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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ಜೆ.ಪಿ.ಪಾ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/MSV/GSB-II/AL/2019-20 Date:04.09.2019

TEST REPORT ON ATTERBERG LIMITS TEST FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. M.S.Venkatesh,** No.163, 5th Cross, 2nd Main, Prakash Nagara, Bangalore - 10.
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* Reference	:	EE/DD/WO/391/2019-20 Dated: 26.08.2019
* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part - 5) :1985 (RA-2015), MORTH Table : 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Specifications as per Morth
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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* Sample ID	:	GSB-(Grading II)
Test Method as per	:	IS - 2720 (Part - 5) :1985 (RA-2015), MORTH Table : 400-1
Date of Testing	:	04.09.2019
Report Issue Date	:	04.09.2019

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Specifications as per Morth
1	Liquid Limit, %	23.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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